

## Patent Claims

1. Acoustically effective nonwoven (1) for linings of motor vehicles, comprising a porous fibrous skeleton (2) made of coarse fibers (8), in particular comprising staple  
5 fibers or spunbonded fibers, and which fibrous skeleton (2) has a continuously changing weight quota of melted on microfibrinous material (7) in a front and/or rear surface region (4, 10), said melted-on microfibrinous material (7) clinging to the coarse fibers (8) and bonding these in such a manner that the nonwoven (1) has a predetermined air flow resistance and is stiffened at least in its surface region (4,  
10 10) by a predetermined bending stiffness in such a manner that this nonwoven becomes self-supporting.
2. Nonwoven according to claim 1, wherein the coarse fibers (8) have a titre of more than 1 dtex, in particular in the range of 1 to 35 dtex, and preferably a titre of 6 to 17  
15 dtex.
3. Nonwoven according to claims 1 or 2, wherein the coarse fibers (8) are spunbonded fibers and in particular are made of a polyester, a polypropylene or a polyamide, and preferably are made of PET.  
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4. Nonwoven according to one of claims 1 to 3, wherein said nonwoven (1) comprises non-melted on microfibers (9).
5. Nonwoven according to claim 4, wherein the non-melted on microfibers (9) have a  
25 titre in the range of 0.01 to 1.0 dtex, preferably a titre of 0.1 to 0.6 dtex and typically a titre of around 0.2 dtex.
6. Nonwoven according to one of claims 1 to 5, wherein the microfibrinous material (7) is a meltblown fibrous material, in particular is made of a polyester, a co-polyester, a  
30 polyamide, a co-polyamide, a polypropylene, a co-polypropylene or similar, and preferably is made of PET or Co-PET.
7. Nonwoven according to one of claims 1 to 6, wherein the coarse fibers (8) have a higher melting point than the microfibrinous material (7).
- 35 8. Nonwoven according to one of claims 1 to 7, wherein the air flow resistance in the surface region (4) of the fibrous nonwoven (1) has a value of between 200 to 60'000

Nsm<sup>-3</sup>, in particular between 800 to 35'000 Nsm<sup>-3</sup>, preferably between 1'000 to 20'000 Nsm<sup>-3</sup> and mainly about 1'400 Nsm<sup>-3</sup>.

- 5 9. Nonwoven according to one of claims 1 to 8, wherein the bending stiffness (B) of the fibrous nonwoven (1) has a value of between 0.005 and 10 Nm and in particular has a value of between 0.025 to 6.0 Nm.
- 10 10. Nonwoven according to one of claims 1 to 9, wherein said nonwoven is combined with at least one further nonwoven.
11. Nonwoven according to one of claims 1 to 10, wherein said nonwoven is provided with an air impermeable layer.
- 15 12. Nonwoven according to one of claims 1 to 11, wherein said nonwoven is provided with a decorative layer.